Monoclonal Antibody to HLA-B7
Purified Antibody (0.025 mg)

Clone: BB7.1
Isotype: Mouse IgG1
Specificity: The mouse monoclonal antibody BB7.1 recognizes the HLA-B7 antigen. Although highly specific, it can cross-react with HLA-B42 antigen.
Regulatory Status: RUO
Immunogen: Papain solubilised HLA-A2, B7
Species Reactivity: Human, Non-Human Primates
Application: Flow Cytometry
Purity: > 95% (by SDS-PAGE)
Purification: Purified by protein-A affinity chromatography
Concentration: 1 mg/ml
Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration: See vial label
Lot Number: See vial label
Background: HLA-B7 allele of human HLA class I major histocompatibility (MHC) antigen indicates higher risk of breast cancer and cervical cancer. Expression of HLA-B7 together with HLA-B27 is associated with increased susceptibility to spondyloarthropaties. Flow cytometry detection of these two alleles is being used to screen for patients, who suffer from inflammatory disorders affecting the sacroiliac and intervertebral joints, such as ankylosing spondylitis (AS). The HLA-B7 antigen (11 alleles) is expressed in 22% of healthy Caucasian individuals.
References:


*Bhattacharya P, Sengupta S: Predisposition to HPV16/18-related cervical cancer because of proline homozygosity at codon 72 of p53 among Indian women is influenced by HLA-B*07 and homozygosity of HLA-DQB1*03. Tissue Antigens. 2007 Oct;70(4):283-93.


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